

Date: Wed, 2 Jun 93 15:45:32 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #672  
To: Info-Hams

Info-Hams Digest                      Wed, 2 Jun 93                      Volume 93 : Issue 672

Today's Topics:

    [Q] oper. rules for 49mhz "Part 15". Unlicensed?  
        Collins tool (2 msgs)  
        Help me find a pair of swinging chokes.  
        HTX-202 mods  
    Important!: Field Day Packet Contacts can be disqualified!  
        J.C. Whitney 2M HT  
        More on the Radio Shack HTX202  
        Newsline text in Usenet? (2 msgs)  
        radar gun license  
        Velocity of light  
        Warning! FT5200 DANGER!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: Wed, 2 Jun 1993 21:26:43 GMT  
From: dog.ee.lbl.gov!newshub.nosc.mil!avalon.chinalake.navy.mil!peewee!  
erik@network.UCSD.EDU  
Subject: [Q] oper. rules for 49mhz "Part 15". Unlicensed?  
To: info-hams@ucsd.edu

In a radio service publication I ran across this phrase in a section  
regarding FCC rules:

"These radios will be, at best, 'starter' units ... targeted at those  
who desire a 'step up' from existing, unlicensed 49 MHZ (Part 15)  
or 27 MHZ (CB) capabilities."

Obviously I am familiar with CB, but what is this 49 MHZ Part 15 ?  
What are the rules of operation?

Thanks

--

Erik van Bronkhorst KC6UUT DoD#4342585443 AMA#[classified]

"Truth is false and logic lost, now the fourth dimension is crossed..."

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Date: Wed, 2 Jun 93 20:02:43 GMT

From: olivea!sgigate!odin!sgihub!zola.esd.sgi.com!mechcad3.esd.sgi.com!  
glusk@decwrl.dec.com

Subject: Collins tool

To: info-hams@ucsd.edu

In article <1uihg5INNkej@mojo.eng.umd.edu>, chuck@eng.umd.edu

(Chuck Harris - WA3UQV) writes:

>In article <1543@arrl.org> dnewkirk@arrl.org (Dave Newkirk) writes:

>>In rec.radio.amateur.misc, davidj@rahul.net (David Josephson) writes:

>>

>>>This is a Bristol spline setscrew. Xcelite and others make sets

>>

>>>>Is \*Bristo\*, no \*l\*.

>

>Uh huh. You may believe that, but then you would be wrong. Government tech

>manuals dating back to the '40s disagree with you, as does Xcelite, and, of

>course, me.

Most sources I've seen say "Bristol", although the R390A technical manuals  
definitely say "Bristo".

Let's call the whole thing off.

Mark Glusker, glusk@esd.sgi.com

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Date: 2 Jun 93 15:17:46 est

From: mvb.saic.com!unogate!news.service.uci.edu!usc!wupost!udel!news.intercon.com!  
psinntp!arrl.org@network.UCSD.EDU

Subject: Collins tool

To: info-hams@ucsd.edu

In rec.radio.amateur.misc, chuck@eng.umd.edu (Chuck Harris - WA3UQV) writes:  
>In article <1543@arrl.org> dnewkirk@arrl.org (Dave Newkirk) writes:  
>>In rec.radio.amateur.misc, davidj@rahul.net (David Josephson) writes:  
>>  
>>[deletions]  
>>  
>>>This is a Bristol spline setscrew. Xcelite and others make sets  
>>  
>>[deletions]  
>>  
>>Is \*Bristo\*, no \*l\*.  
>  
>Uh huh. You may believe that, but then you would be wrong. Government tech  
>manuals dating back to the '40s disagree with you, as does Xcelite, and, of  
>course, me.

Ah, yes. One of those government manuals -- I think this one spelled Bristo  
right -- used the word \*alinement\* throughout. Yes, my Xcelite set of  
spline wrenches calls them Bristols. It \*does\* seem like a typo.

Regards/WJ1Z

David Newkirk, Senior Asst Tech Editor | voice: 203-666-1541 X280  
American Radio Relay League | fax: 203-665-7531  
225 Main St, Newington CT 06111 USA | net: dnewkirk@arrl.org

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Date: Wed, 2 Jun 1993 19:58:57 GMT  
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!uwm.edu!rpi!utcsri!  
newsflash.concordia.ca!sifon!ego!henry@decwrl.dec.com  
Subject: Help me find a pair of swinging chokes.  
To: info-hams@ucsd.edu

Hello. I am building a vacuum tube project that requires a high  
voltage power supply. I need a pair of swinging chokes, approximate  
ratings 250mA, 5/20H. If anyone has a pair of chokes like this kicking  
around his basement, or can help me locate a source, I'd appreciate  
hearing about it!

Thanks.

-Henry

henry@ego.psych.mcgill.ca

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Date: 2 Jun 1993 20:17:28 GMT

From: wupost!howland.reston.ans.net!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!  
math.ohio-state.edu!sol.ctr.columbia.edu!news.kei.com!ssd.intel.com!chnews!  
news@decwrl.dec.com

Subject: HTX-202 mods

To: info-hams@ucsd.edu

In article <9306011734.aa14703@cbda7.apgea.army.mil>  
wejones@cbda7.apgea.army.mil (Bill Jones) writes:

>someone else writes:

>> PS: Is it normal for the 202 to have a birde on 146.760?? Maybe that  
>> is common?? cul

>I don't know about normal, but mine does it too. So does a friends.....

And so does mine, with the same dependency on rubber ducky position.  
HMMMMMM.

Jim, W5GYJ (Not an Intel Opinion)

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Date: Wed, 02 Jun 93 17:22:14 GMT

From: pravda.sdsc.edu!news.cerf.net!usc!cs.utexas.edu!wupost!csus.edu!netcom.com!  
netcomsv!orchard.la.locus.com!prodnet.la.locus.com!lando.la.locus.com!  
dana@network.UCSD.EDU

Subject: Important!: Field Day Packet Contacts can be disqualified!

To: info-hams@ucsd.edu

I spoke to Warren Stankiewicz of the ARRL regarding packet operation at Field Day. He confirmed my belief that the "free" Packet station may use repeaters, either digipeaters or net/rom, and that the Packet station may operate on any band pursuant to the rest of the Field Day rules (i.e. 15 minute rule, etc.).

However, Warren warned me about two things that may not be obvious regarding packet operation for Field Day.

Warren said that packet contacts which use non-amateur means of communication, specifically Internet, are not qualified for Field Day points.

I asked Warren "What if you don't know that the Internet is being used?". He said "If we find out, those points will be disqualified". I did not specifically ask about wormholes such as the Simi Valley-CAPRA link,

but I assume these are the same, they are non-amateur landline networks, which is what the term "Internet" generally describes.

My concern is that net/rom routes can be "opaque"; i.e., you may not know what kind of technology is used to link the nodes, and may inadvertently make illegal Field Day QSOs. In fact, this significantly reduces my enthusiasm to use digipeaters or net/rom during Field Day, since virtually every contact there might be disqualified later. At the same time, it gives me an incentive to protest Field Day groups showing large packet totals, given the likelihood of the use of non-amateur services. This is not meant as an anal-retentive comment, just a conservative reading of the rules.

Another issue is that packet contacts, whether by a conventional station or by the Packet-only station, count as CW QSOs. Therefore, if you operate HF in your packet station, you need to make sure to dupe CW QSOs by any station with packet QSOs by any station. I.e., if you have a 20m CW station and he works KK6JQ on CW, and your Packet station works KK6JQ on 20m packet, you only get to count one of the QSOs.

In summary:

- \* Packet QSOs may use digipeaters and net/rom, but must not use non-amateur services, regardless of whether you know or not.
- \* Packet QSOs dupe against CW QSOs.

If you have any questions or comments, please contact "contest@arrl.org" or Warren Stankiewicz of the ARRL at (203) 666-1541.

--

\* Dana H. Myers KK6JQ | Views expressed here are \*  
\* (310) 337-5136 | mine and do not necessarily \*  
\* dana@locus.com DoD #466 | reflect those of my employer  
\*  
\* This Extra supports the abolition of the 13 and 20 WPM tests \*

-----  
Date: 2 Jun 93 21:29:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: J.C. Whitney 2M HT  
To: info-hams@ucsd.edu

swrinde!emory!dragon!nj8j!ben@network.UCSD.EDU, Ben Coleman NJ8J writes:

>QST, 73, CQ, and the AEA and Universal AR catalogs are pretty much

>addressed to the radio amateur - you can pretty much assume that those  
>reading them have \_some\_ knowledge of amateur radio and the licensing  
>requirements.

>J. C. Whitney, OTOH, is in no way geared specifically for the radio  
>amateur. You really can't make the assumption that readers are aware of  
>the licensing requirement. And given the level of current FCC fines,  
>it's really not fair to J. C. Whitney customers to make ham gear  
>available to them without making it clear that a license is required for  
>operation.

My response:

----- Conservative viewpoint -----  
Ignorance of the law is no excuse.

----- Liberal viewpoint -----  
The FCC should institute a literacy program to make sure everyone  
can read after which a notification would be issued reminding everyone  
in the entire universe of the law (this is the U.S., the policeman  
and conscience of the world) as often as necessary to ensure no one  
is missed. Meanwhile, legislation should be passed entitling (ooops,  
giving everyone not currently holding a license, the "RIGHT") to own  
and use freely, radio transmitters that tune DC to light. We wouldn't  
want an election to be lost because the unlicensed were unfairly  
discriminated against.

; -) 8-| %-{

Then the softball people can use their radar guns and not end up criminals.

Reid, WB7CJO

Fletcher @ Moho.UWYo.Edu

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Date: Wed, 2 Jun 1993 20:43:07 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-  
state.edu!sdd.hp.com!col.hp.com!news.dtc.hp.com!srigenprp!donrm@network.UCSD.EDU  
Subject: More on the Radio Shack HTX202  
To: info-hams@ucsd.edu

The HTX202 is proving to be a pretty popular radio. It well should be,  
it was selling at a super price during Radio Shack's sale of a week or  
so ago.

However, as others mentioned previously on the net, I found a few undoc-  
umented "features" in my HTX202 and others I've tried out. Here's my find-  
ings on my particular unit; it's pretty subjective, so take it with a

grain of salt if you want.

1. There is indeed an in-band receive spur at 146.76. This signal is radiated out the transceiver's case and into the rubber duck antenna. It reads about 3-5 on the LCD S meter. You won't hear it with an external antenna removed any distance from the radio itself. Fishing around with an antenna probe shows most of the radiation coming from the keypad. I haven't figured out all the "tweets" associated with this radio, but at first glance this spur appears to be caused by the 41st harmonic of the uP clock (operating at 3.579545 Mhz). Changing the crystal frequency would move the spur to a less-popular channel, but might throw off some of the radio's timing and affect DTMF/CTCSS tone accuracy providing these are generated by the CPU. BTW, if you hold the HTX202 close to the antenna of a communications receiver tuned to 3.58 Mhz, you can hear the color-burst crystal radiation. You can also hear the 146.76 spur on another 2-meter radio held close to the HTX202.
2. The second weirdness involves the power save option. With the radio's duty cycle (PS in the configuration menu) set at something less than 1-8, and SAVE feature enabled, the RPG (tuning knob) hangs up when manually selecting memory channels. The up/down buttons work normally, as does the 1-16 duty cycle.
3. Another interesting glitch is the way the radio behaves when the battery fails. When the "batt" icon appears on the LCD screen, you will not have much time left for transmission. Further transmitting will blank out the LCD display screen, but the radio keeps transmitting at the last selected frequency, although with some very hairy-sounding sidebands. Releasing the PTT switch does nothing - the radio keeps transmitting until the power is switched off. You also can't get any mike audio thru the transceiver at this point.
4. I find the DTMF REPLY feature unusable with transceivers having long DTMF/PTT transmit hangtimes. By the time the inquiring transceiver has gone back to receive, the HTX202 has already sent out the DTMF # reply. I think the HTX202 should really respond after some time delay or upon local squelch closure to make sure the inquiring transceiver has recovered back to receive mode.

The receiver is pretty sensitive. I checked mine at about 0.18uV/20 db quieting. The first LO leakage out the antenna port is about -57dbm. As mentioned previously, I also found a lot of the leakage coming from the keypad area. BTW, the first LO radiation falls from 122.6 to 126.6 Mhz, so I'd be pretty careful using this radio near operating aircraft.

Someone mentioned transmitter hang-on when tone squelch is used. My unit stops sending PL tone as soon as the PTT is released and the transmitter

drops off about 100 milliseconds later. The unit doesn't send out any type of "reverse burst".

Anyway, great radio, great price. Anyone know when the HTX202A is coming out?

Don Montgomery, K6LTS  
donrm@sr.hp.com

..standard disclaimer applies...

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Date: 2 Jun 1993 19:57:32 GMT  
From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!uwm.edu!caen!malgudi.oar.net!news.yasu.edu!yfn.yasu.edu!ad815@network.UCSD.EDU  
Subject: Newsline text in Usenet?  
To: info-hams@ucsd.edu

Someone told me that the full text of the Newsline broadcasts can be found in one of the ham radio Usenet areas. I've searched this one and the keyword "Newsline" was not found.

Am I looking in the wrong newsgroup, or am I looking for the wrong keyword?

Thanks!

John

--

John S. Kennedy KB8GYS | When public access Internet is universal, we  
ad815@yfn.yasu.edu | may not be able to solve all the world's problems,  
72217.416@compuserve.com | but at least we will be able to talk about them.

-----

Date: Wed, 2 Jun 1993 21:50:54 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!news1.boi.hp.com!swalton@network.UCSD.EDU  
Subject: Newsline text in Usenet?  
To: info-hams@ucsd.edu

Try rec.radio.info

73  
-Sean Walton  
KB7RFA

-----



Date: 2 Jun 93 20:18:06 GMT  
From: ogicse!emory!gatech!kd4nc!n4tii@network.UCSD.EDU  
Subject: radar gun license  
To: info-hams@ucsd.edu

lrk@k5qwb.lonestar.org (Mr. Lyn R. Kennedy) writes:

>Title 47 CFR 90.19(g)(6)  
>(under Police Radio Service)

>A licensee of a radio station in this service may operate radio units  
>for the purpose of determining distance, direction, speed, or position  
>by means of radiolocation device on any frequency available for  
>radiolocation purposes without specific authorization from the  
>Commission, provided ( the right equipment, etc ).....

>Interestingly, fire departments are eligible too... :-)

>This is from a 1983 edition so it could have been changed....

So basically, the previous posts under this topic have been incorrect...  
or what? All the previous followups have said that one had to have a  
specific radar license for it...

What's the deal here? Do we (PD's) need it or not?

John  
n4tii%kd4nc.uucp@gatech.edu

>-----  
>  
>73,                   internet       | lrk@k5qwb.lonestar.org  
>Lyn Kennedy       packet radio | K5QWB @ N5LDD.#NTX.TX.US.NA  
>                   pony express | P.O. Box 5133, Ovilla, TX, USA 75154  
  
>----- "We have met the enemy and he is us." Pogo -----  
-----

Date: 2 Jun 1993 20:32:54 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!gatech!  
news.ans.net!rpi!rs6420.ecs.rpi.edu!maessm@network.UCSD.EDU  
Subject: Velocity of light  
To: info-hams@ucsd.edu

In article <C801pM.Lsz@cbnewsj.cb.att.com>, k2ph@cbnewsj.cb.att.com (The QRPer)

writes:

|> is approximately 3.0e08 meters per second, not 3.0e05. It can  
|> be shown that this is approximately 1.8e12 furlongs per fortnight.

But what is it in parsecs per jiffy?

(1 jiffy = one one hundred thousand billion billionth of a second)

--

Mat Maessen    N2NJZ            | maessm@rpi.edu

-----+-----  
disclaimer: Anyone NOT singing will have a can of Foster's lobbed at  
their heads.

-----  
(c) 1993 Fake-sig Co., Inc.  
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-----  
Date: 2 Jun 93 19:19:06 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-  
state.edu!uwm.edu!msuinfo!netnews.upenn.edu!prijat!triangle.cs.uofs.edu!

bill@network.UCSD.EDU

Subject: Warning! FT5200 DANGER!

To: info-hams@ucsd.edu

Excuse me for being obtuse, but if this is for use with an Amateur Radio Xcvr  
why didn't thye just use a frequency a couple of Mhz higher?? No interference  
from 49 Mhz devices and you already have a license for 6 meters!!

Kinda makes you wonder who designs this stuff, doesn't it??

bill    KB3YV

--

Bill Gunshannon            | "There are no evil thoughts, Mr. Reardon" Francisco  
bill@cs.uofs.edu            | said softly, "except one; the refusal to think."  
University of Scranton      |  
Scranton, Pennsylvania      |            #include <std disclaimer.h>

-----  
Date: Wed, 2 Jun 1993 18:46:33 GMT

From: mdisea!prager@uunet.uu.net

To: info-hams@ucsd.edu

References <9306021339.AA02237@tix.timeplex.com>,  
<1993Jun2.151625.18160@news.columbia.edu>, <1uikieINNde7@rave.larc.nasa.gov>

Subject : Re: Velocity of light

"C"onstant

```
=====
David Prager                (W) 206-487-5837
Motorola                    (H) 206-485-4397
Mobile Data Division
19807 Northcreek Parkway
Bothell, WA 98011          prager@mdd.comm.mot.com
```

-----  
Date: 2 Jun 1993 21:05:25 GMT  
From: ncd.com!newshost.ncd.com!hansen1!phil@decwrl.dec.com  
To: info-hams@ucsd.edu

References <1993Jun2.150553.22924@ke4zv.uucp>, <1uis6e\$cpc@access.digex.net>,  
<C80CM1.2KC@squam.banyan.com>  
Subject : Re: Repeaters with those damned beeps

On my repeaters those "darn beeps" server many purposes:

Two beeps - User is talking on this local repeater)  
One beep - User is talking on the remote repeater)

Morse 'B' - Repeater running on Battery power  
Morse 'BF' - Battery is less than 11 volts (battery failure or run down)  
Morse 'P' - Refected power is above normal (aka antenna failure)

So these help me, the person who spends weekends driving to the mountain tops,  
keeping the repeaters running well.

How does a "Squelch Tail" do all of this? Answer... It can't!

I know some hams who prefer the standard squelch tail and some who don't.  
Ahhh the value of being a free country... You can put up a repeater and have  
the type of squelch tail that you like :-)

Phil  
DE KJ6NN

-----  
Date: Wed, 2 Jun 1993 18:56:24 GMT



:callsign.cs.buffalo.edu is a bit more up to date but still old, I  
:upgraded to Extra on June 10, 1992 and it doesn't show up.  
:

As I noted, Buffalo was updated a year ago Spring; it costs a little less than \$1,000 to get the tape which updates Buffalo and several of the others. Until those heading up the "great callsign project" feel they can scrape together the money, usually with \$25 donations, the server will have data dated mid Spring 1992.

Kristin

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Peter B. Hayward

WX9T

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Date: Wed, 2 Jun 93 19:49:52 GMT  
From: mnemosyne.cs.du.edu!nyx!jmaynard@uunet.uu.net  
To: info-hams@ucsd.edu

References <1udp6e\$kla@access.digex.net>, <1993Jun2.150553.22924@ke4zv.uucp>,  
<1uis6e\$cpc@access.digex.net>net  
Subject : Re: Repeaters with those damned beeps

In article <1uis6e\$cpc@access.digex.net> bote@access.digex.net (John Boteler) writes:

>As I said originally, good operating technique obviates the  
>need for beeps. That's why I operate repeaters without beeps.

OK, tell me how you'd deal with a conversation with another ham where you're both full quieting and the repeater has a Micor squelch circuit - which removes the noise burst of a conventional squelch closing. How does good operating practice help here?

>Simply replacing one noise with another doesn't really  
>make the repeater easier to use, plus it makes appliance  
>operators out of folks by insulating them from the actual  
>conditions on the repeater.

How about repeaters where the beep serves a telemetry function, as well...for example, the one I hang out on goes "bee-boop" on carrier dropout, and \*both\* those tones mean something.

>That seals it. In my experience, if NASA uses it, then

>it CAN'T be a good idea.

Better throw away all your microelectronics, then.

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can  
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.

"If my car ran OS/2, it'd be there by now" -- bumper sticker

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End of Info-Hams Digest V93 #672

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